

**INDUSTRY-SPECIFIC INFORMATION COLLECTION REQUEST FOR  
THE DEVELOPMENT OF ENGINE TEST FACILITIES  
MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (MACT) STANDARDS**

**I. Instructions**

Please complete this information for operations that comprise engine testing at your facility. We are requesting information on operations that use or emit hazardous air pollutants (HAP's). Fill out this information request as completely as possible using reasonably available information. You are not expected to undertake extensive analyses of recorded information to generated responses to this survey. In some instances where specific information is unavailable, you are requested to estimate or provided qualitative response to survey questions. **No additional monitoring or emission testing is required by your company to respond to this request.** If your answer to a question is unknown (UK), unavailable (UA), or not applicable (NA), state whichever of these is applicable, rather than leaving the survey block blank.

For your convenience, we have provided in Attachment A additional information on the scope and purpose of this survey. You should read this material before attempting to complete the survey. Attachment B is a copy of the HAP list from Section 112(b) of the Clean Air Act. **Please note that careful review of the Attachments and the instructions and footnotes in the following questionnaire may significantly reduce the amount of time needed to fill out this information request. Emission points, equipment, and materials that are excluded from this survey are noted in the Attachments, instructions, and footnotes.**

The engine test facilities source category includes any facility engaged in the testing of uninstalled stationary and mobile engines, including turbines and reciprocating engines (excluding rocket motor/engine testing). Testing purposes include determining conformity with applicable standards and/or new product testing.

The EPA understands that you may consider some of the requested information to be confidential business information (CBI). As explained in the cover letter to this survey, EPA and its contractor will follow established procedures for protecting CBI. However, you must indicate which information in your survey response you wish to claim as CBI. To assist you, EPA has included a footnote at the bottom of each page of the survey that asks you to indicate if the information entered on that page is nonconfidential or partially confidential. If you mark "partially confidential", circle the specific response(s) that you consider CBI. You should refer to Enclosure 2 for information on what EPA considers CBI. For example, publicly available information and emissions data are not eligible for confidentiality claims.

If you have any questions regarding this request, please contact:

Mr. Brian Strong of MRI at (919) 851-8181, ext. 5472 or by e-mail at bstrong@mriresearch.org;  
or Mr. George Smith of EPA at (919) 541-1549 or by e-mail at smith.georgef@epamail.epa.gov.

Return this information request and any additional information by March 1, 1999 to:

Sally L. Shaver, Director  
Emission Standards Division (MD-13)  
U. S. Environmental Protection Agency  
Office of Air Quality Planning and Standards  
Research Triangle Park, NC 27711

**Attention: George F. Smith**

## II. General Information

- A. Name of legal owner of facility (use your Title V permit application(s) as a guide to what constitutes the facility):

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- B. Name of legal operator of facility, if different from legal owner:

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- C. Address of legal owner/operator (please specify which):

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- D. Major source status:

1. Is the facility a major source for hazardous air pollutants (i.e., does the facility emit or have the potential to emit considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants [listed in Attachment B])?

\_\_\_ Yes (*Please skip to question D.3.*)

\_\_\_ No (*Please complete question D.2 and then skip to question F.*)

2. Please include the justification for the minor source status of the facility (i.e., potential to emit is less than the major source thresholds [please include calculations], actual emissions are less than 50 percent of the major source criteria, synthetic minor, etc.).

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3. What co-located activities influence major source status?

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E. Other MACT standards:

1. Please indicate any other MACT standards that are currently applicable to the facility:

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2. Please indicate any other expected MACT standards that may be potentially applicable to the facility:

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F. Size of company:

1. Approximate number of employees of the business enterprise. This indicates the employment of the parent company and all subsidiaries, branches, and unrelated establishments owned by the parent company (you may answer using the following ranges: 0-100; 101-250; 251-500; 501-750; 751-1,000; 1,001-1,500; and >1,500).

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2. Number of facility employees directly assigned to the engine testing operations:

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- G. Please indicate which standard industrial classification (SIC) codes apply to operations at the facility. (SIC codes are available on TRI Form R and in your Title V permit application.)

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H. Name of facility (if different from question C):

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I. Street address of facility (if different from question A):

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J. Latitude and longitude coordinates of facility (see Section II of Attachment A and Appendix A of Attachment A):

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K. Dun and Bradstreet Number for the legal owner of this facility (see facility TRI Form R):

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**(Optional)** Dun and Bradstreet Number for this facility (if the facility has a Dun and Bradstreet number other than the one listed above - see facility TRI Form R):

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J. Name(s) of contact(s) able to answer technical questions about the completed survey:

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1. Title(s):

2. Telephone No.(s): (\_\_\_\_)\_\_\_\_\_

3. E-mail: \_\_\_\_\_

4. Fax No.(s): (\_\_\_\_)\_\_\_\_\_

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### III. Facility Operations

A. Complete Tables 1 through 3 for the calendar year 1997 (unless you can justify selection of an alternate base year) for all engine testing activities at your facility that are covered by the engine test facilities source category. (Make additional copies of any table(s) as necessary.)

B. For each test cell, provide a schematic or diagram that depicts the test cell and any HAP emissions points associated with engine testing. On each schematic or diagram, label each stack and emission point with a unique identification number. Existing material, including Title V application materials, may be used to depict the test cells and HAP emission points. For facilities with several test cells, a generic schematic or diagram may be submitted, provided each cell listed in Table 1 is identified. Where no existing schematics or diagrams are available, you may provide hand-drawn diagrams to depict the test cells and stack emission points.

C. Complete Tables 4 through 6 for air pollution capture or control equipment identified in Table 1. Use the same nomenclature used to complete Tables 1 and 2.

D. Have any emission points at the facilities' test cell been tested for HAP's? (Check one)

- ☐ Yes (Continue with Question F.1, below, do not include test reports with your response, however; test reports may be requested later.)
- ☐ No (Skip to Section IV, below.)

1. Please indicate which of the following pollutants were tested for:

- |                       |                                  |
|-----------------------|----------------------------------|
| ~ 1,3-Butadiene       | ~ Selenium                       |
| ~ Acetaldehyde        | ~ Phenol                         |
| ~ Acrolein            | ~ Styrene                        |
| ~ Antimony compounds  | ~ Toluene                        |
| ~ Arsenic compounds   | ~ Xylene (isomers)               |
| ~ Benzene             | <b>Polycyclic Organic Matter</b> |
| ~ Beryllium compounds | ~ Anthracene                     |
| ~ Cadmium compounds   | ~ Benz[a]anthracene              |
| ~ Chromium compounds  | ~ Benzo[a]pyrene                 |
| ~ Cobalt compounds    | ~ Benzo [e] pyrene               |
| ~ Cyanide compounds   | ~ Coronene                       |
| ~ Ethylbenzene        | ~ Chrysene                       |
| ~ Formaldehyde        | ~ Dimethylnaphthalene (isomers)  |
| ~ Hexane              | ~ Fluoranthene                   |
| ~ Lead                | ~ 1-methylnaphthalene            |
| ~ Manganese compounds | ~ 2-methylnaphthalene            |
| ~ Mercury compounds   | ~ Naphthalene                    |
| ~ Nickel compounds    | ~ Perylene                       |
| ~ Phosphorus          | ~ Phenanthrene                   |
| ~ Propionaldehyde     | ~ Pyrene                         |

2. Do the test report(s) include process data (e.g., duty cycles, fuel usage) such that emission factors could be developed that relate emissions to parameters such as fuel use? (Check one)

- ☐ Yes
- ☐ No

#### IV. Factors That Affect HAP Emission Reductions

Completion of this section is optional. If you choose to respond, clearly distinguish between pollution reduction and source reduction measures. Pollution reduction measures alter the physical, chemical, or biological characteristics or the volume of a HAP through a process or activity which itself is not integral to and necessary to produce a product or provide a service. The use of “add-on” devices to capture and control (recover or destroy) HAP emissions are considered pollution reduction measures. In contrast, source reduction measures include equipment or technology modifications, process or procedure modifications, reformulation of fuel, and improvements in housekeeping, maintenance, training, or inventory control.

- A. Provide the following information for each test cell for which pollution reduction or source reduction measures have resulted in a decrease in HAP emissions since 1987:

1. Name of unit operation: \_\_\_\_\_
2. Type of control or description of process change:  
\_\_\_\_\_  
\_\_\_\_\_

- B. Are you aware of any alternative processes (fuel substitutions) or control devices that could result in fewer impacts between environmental media (water, air, and land) or reduced total release to all environmental media (e.g., reduced wastewater or solid waste)? Discuss whether these processes could be adapted to the engine test facilities source category and any experience you have with them.

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#### V. Miscellaneous

- A. If any control or process change described in Section IV was instituted as a result of new source review requirements pursuant to 40 CFR 51.160, Subpart I, Review of New Sources and Modifications, provide the date at which the lowest achievable emission rate (LAER) came into effect:

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- B. Describe any factors not addressed in the above questions that might serve to distinguish your facility from others in this source category for purposes of developing a separate source category, or subcategory, and MACT standards.

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